

Figure 1A

	helix A	helix B	
HIV-1'O'	1 P V V P N A Q G Q M I H Q A L S P R T L N A W V K A V E E K A F N P E I I P M F M A L S E G A I P Y	50	
HIV-1'M'	1 P I V Q N I Q G Q M V H Q A I S P R T L N A W V K V V E E K A F S P E V I P M F S A L S E G A T P Q	50	
	M1/O1 pept.		
	----- M2/O2 pept.	----- M3/O3 pept.	

	helix C	helix D	
HIV-1'O'	51 D I N I M L N A I G G H Q G A L Q V L K E V I N E E A A D W D R S H P P V V G P L P P G Q I R E P T	100	
HIV-1'M'	51 D L N T M L N T V G G H Q A A M Q M L K E T I N E E A A E W D R V H P V H A G P I A P G Q M R E P R	100	
	----- M4/O4 pept.	----- M5/O5 pept.	

	helix E	helix F	helix G
HIV-1'O'	101 G S D I A G T T S T Q Q E Q V H W I T R A N H P V P V G D I Y R K W I V L G L N K M V K M Y S P V S	150	
HIV-1'M'	101 G S D I A G T T S T L Q E Q I G W M T N . N P P I P V G E I Y K R W I I L G L N K I V R M Y S P T S	149	
	----- M6/O6 pept.	----- M7/O7 pept.	
		----- M8/O8 pept.	

	helix H	helix I	helix J
HIV-1'O'	151 I L D I K Q G P K E P F R D Y V D R F Y K T L R A E Q A I Q D V K N W M T E T L L V Q N A N P D C K	200	
HIV-1'M'	150 I L D I R Q G P K E P F R D Y V D R F Y K T L R A E Q A S Q E V K N W M T E T L L V Q N A N P D C K	199	
	***** (MHR)		
	M9/O9 pept.		

	M10/O10 pept.	----- M11/O11 pept.	

	J	helix K	
HIV-1'O'	201 Q I L K A L G P G A T L E E M M V A C Q G V G G P T H K A K L L	232	
HIV-1'M'	200 T I L K A L G P A A T L E E M M T A C Q G V G G P G H K A R V L	231	
	M12/O12 pept.	----- M13/O13 pept.	

Figure 1B

Sequence alignment of HIV-1 p24 antigen from Group O (Ham 112) and Group M (HXB2) and HIV-2 p26 antigen from subtype A (D194)

	helix A	helix B
HIV-1 'O'	1 P V V P N A Q G Q M I H Q A L S P R T L N A W V K A V E E K A F N P E I I P M F M A L S E G A I P Y 50	-----
HIV-1 'M'	1 P I V Q N I Q G Q M V H Q A I S P R T L N A W V K V V E E K A F S P E V I P M F S A L S E G A T P Q 50	-----
HIV-2 'A'	1 P . V Q Q A G G N Y I H V P L S P R T L N A W V K L V E E K F G A E V V P G F Q A L S E G C T P Y 49	-----

	helix C	helix D
HIV-1 'O'	51 D I N I M L N A I G G H Q G A L Q V L K E V I N E E A D W D R S H P P V V G P L P P G Q I R E P T 100	-----
HIV-1 'M'	51 D L N T M L N T V G G H Q A A M Q M L K E T I N E E A E W D R V H P V H A G P I A P G Q M R E P R 100	-----
HIV-2 'A'	50 D I N Q M L N C V G D H Q A A M Q I I R E I I N E E A A D W D A Q H P I P . G P L P A G Q L R D P R 98	-----

	helix E	helix F	helix G
HIV-1 'O'	101 G S D I A G T T S T Q Q E Q V H W I T R A N H P V P V G D I Y R K W I V L G L N K M V K M Y S P V S 150	-----	-----
HIV-1 'M'	101 G S D I A G T T S T L Q E Q I G W M T N . N P P I P V G E I Y K R W I I L G L N K I V R M Y S P T S 149	-----	-----
HIV-2 'A'	99 G S D I A G T T S T V D E Q I Q W M Y R Q P N P V P V G N I Y R R W I Q I G L Q K C V R M Y N P T N 148	-----	-----

	helix H	helix I	helix J
***** (MHR) *****			
HIV-1 'O'	151 I L D I K Q G P K E P F R D Y V D R F Y K T L R A E Q A I Q D V K N W M T E T L L V Q N A N P D C K 200	-----	-----
HIV-1 'M'	150 I L D I R Q G P K E P F R D Y V D R F Y K T L R A E Q A S Q E V K N W M T E T L L V Q N A N P D C K 199	-----	-----
HIV-2 'A'	149 I L D V K Q G P K E S F Q S Y V D R F Y K S L R A E Q T D P A V K N W M T Q T L L I Q N A N P D C K 198	-----	-----

	J	helix K
HIV-1 'O'	201 Q I L K A L G P G A T L E E M M V A C Q G V G G P T H K A K L L 232	-----
HIV-1 'M'	200 T I L K A L G P A A T L E E M M T A C Q G V G G P G H K A R V L 231	-----
HIV-2 'A'	199 L V L K G L G M N P T L E E M L T A C Q G V G G P S Q K A R L M 230	-----

Figure 2A. Monoclonal antibodies 103-350-474 and 117-289-555 binding to p24 peptides

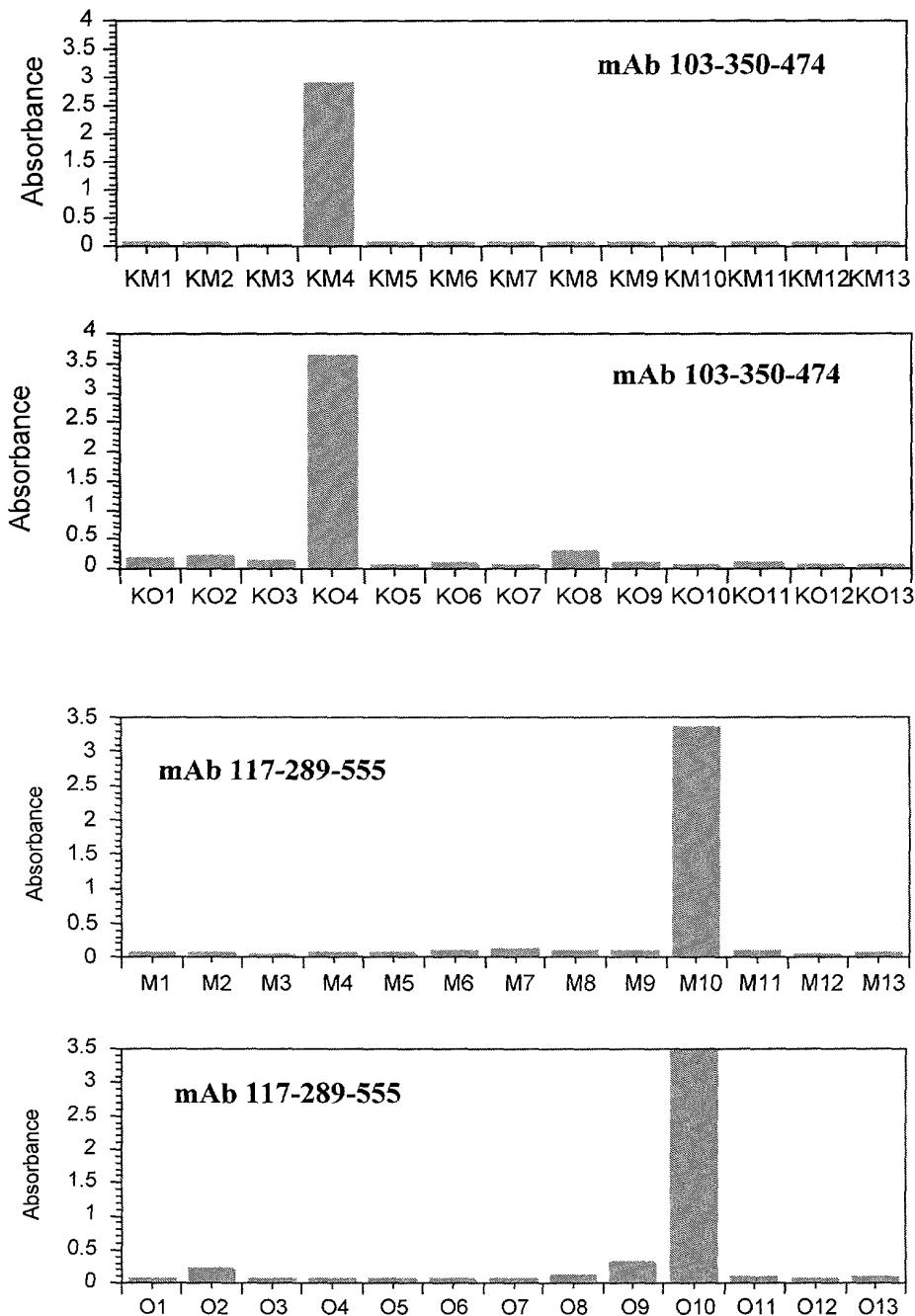


Figure 2B. Monoclonal antibodies 115-303-620, 120A-270-108 and 115B-151-423 binding to p24 peptides

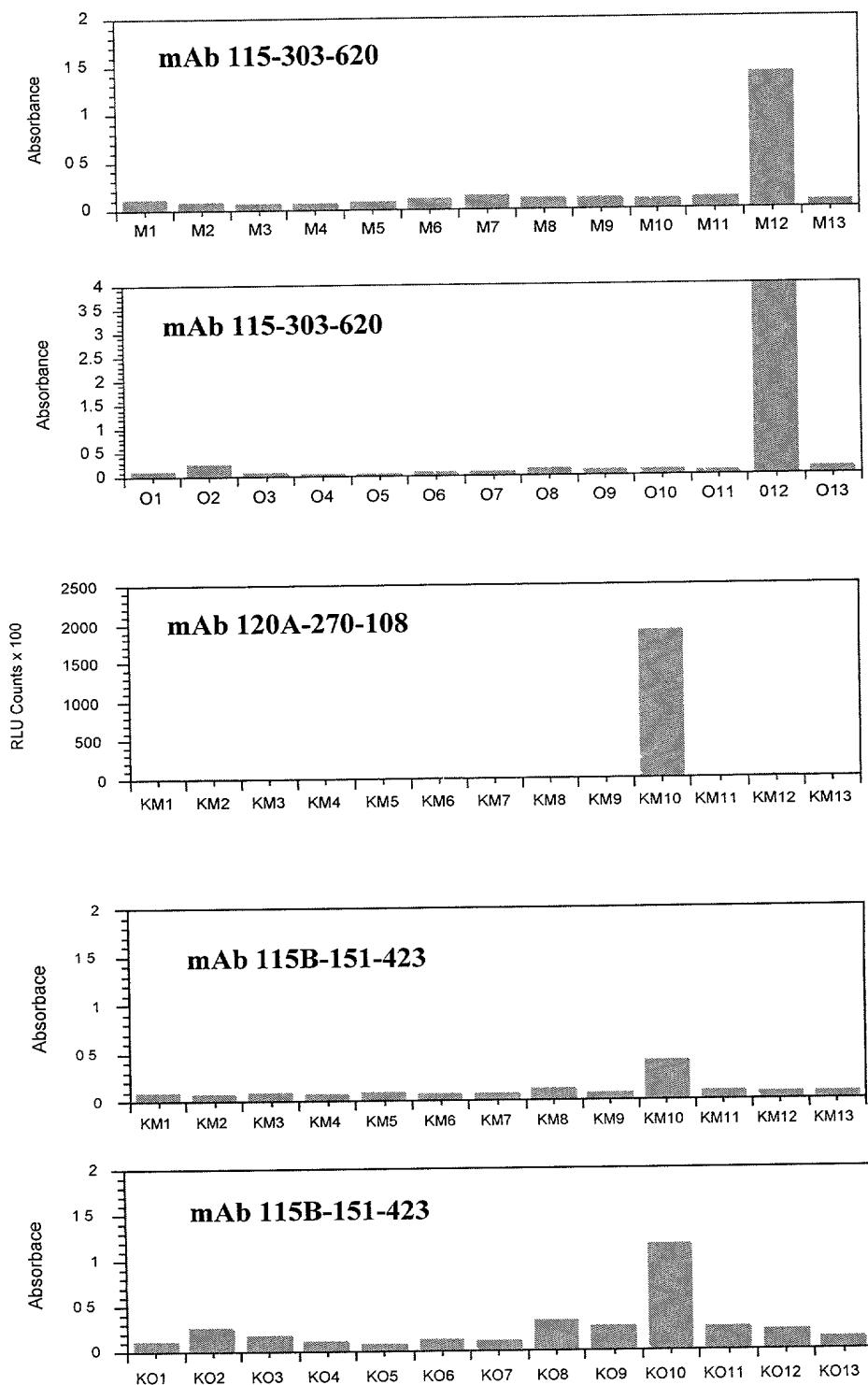


Figure 3 Location of deletion clones derived from HIV-1 group M and O p24

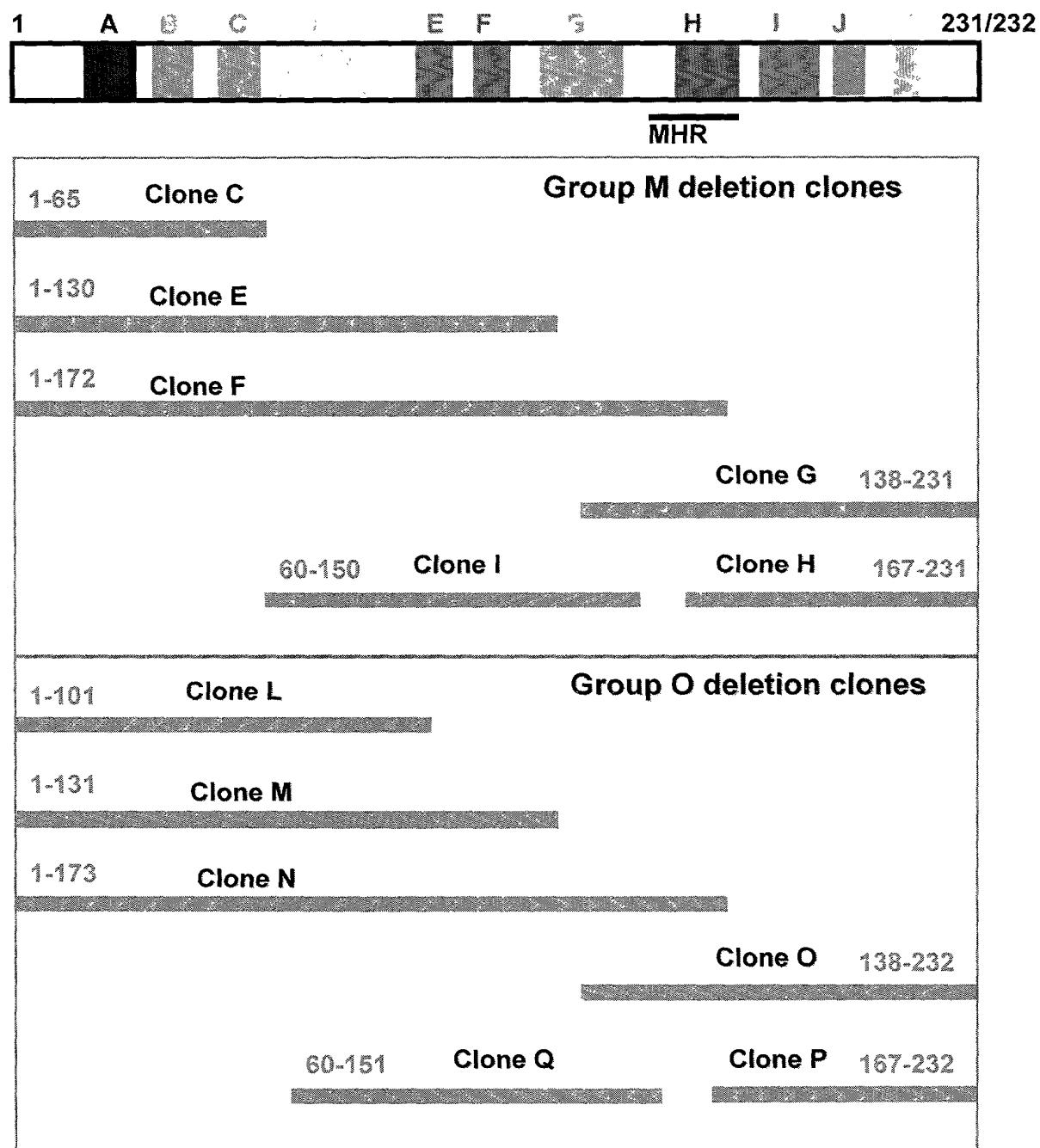
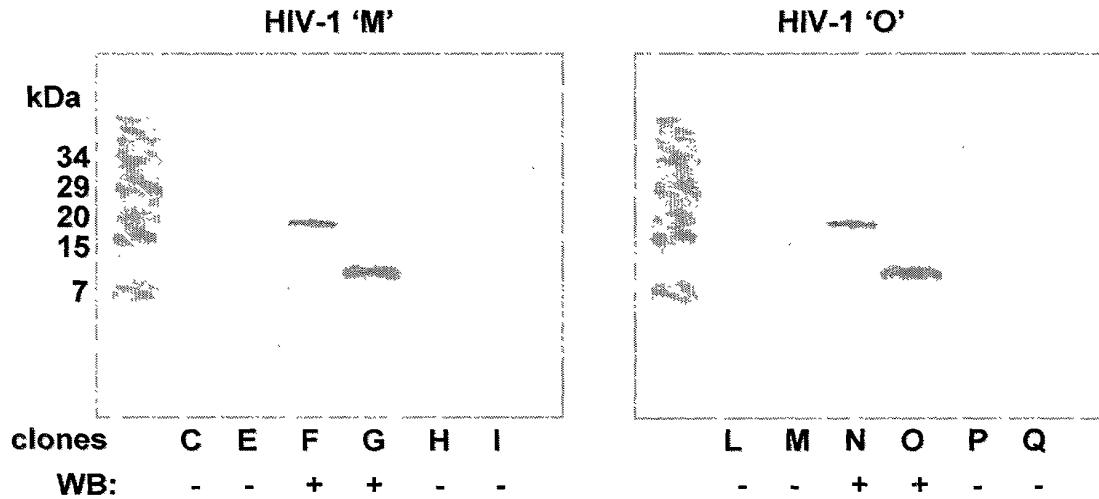


Figure 4 Western blots of mAbs against p24 deletion clones

Western blot of mAb 115B-151-423 against deletion



Western blot of mAb 108-394-470 against deletion

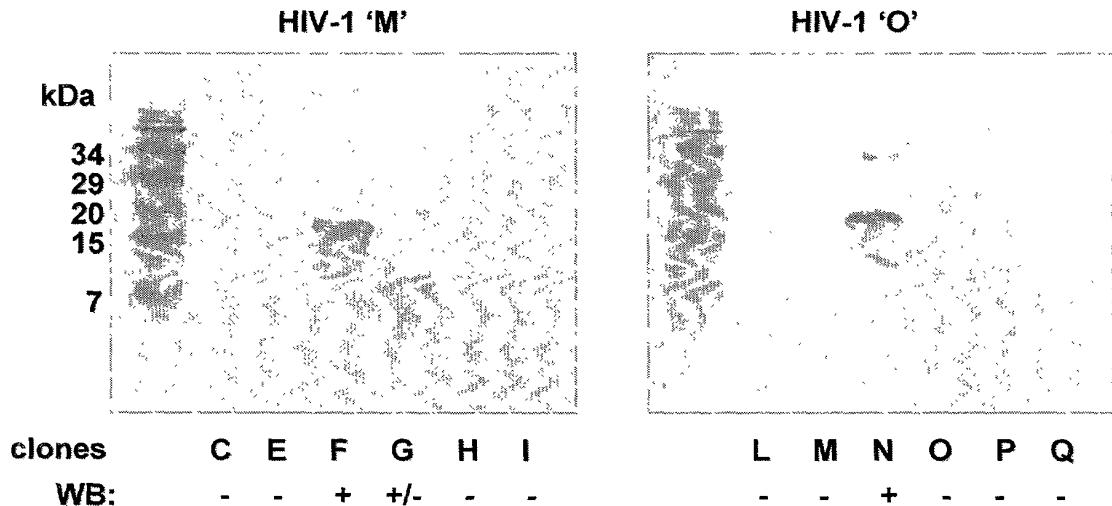


Figure 5 HIV-1 p24 epitopes recognized by p24 Mabs

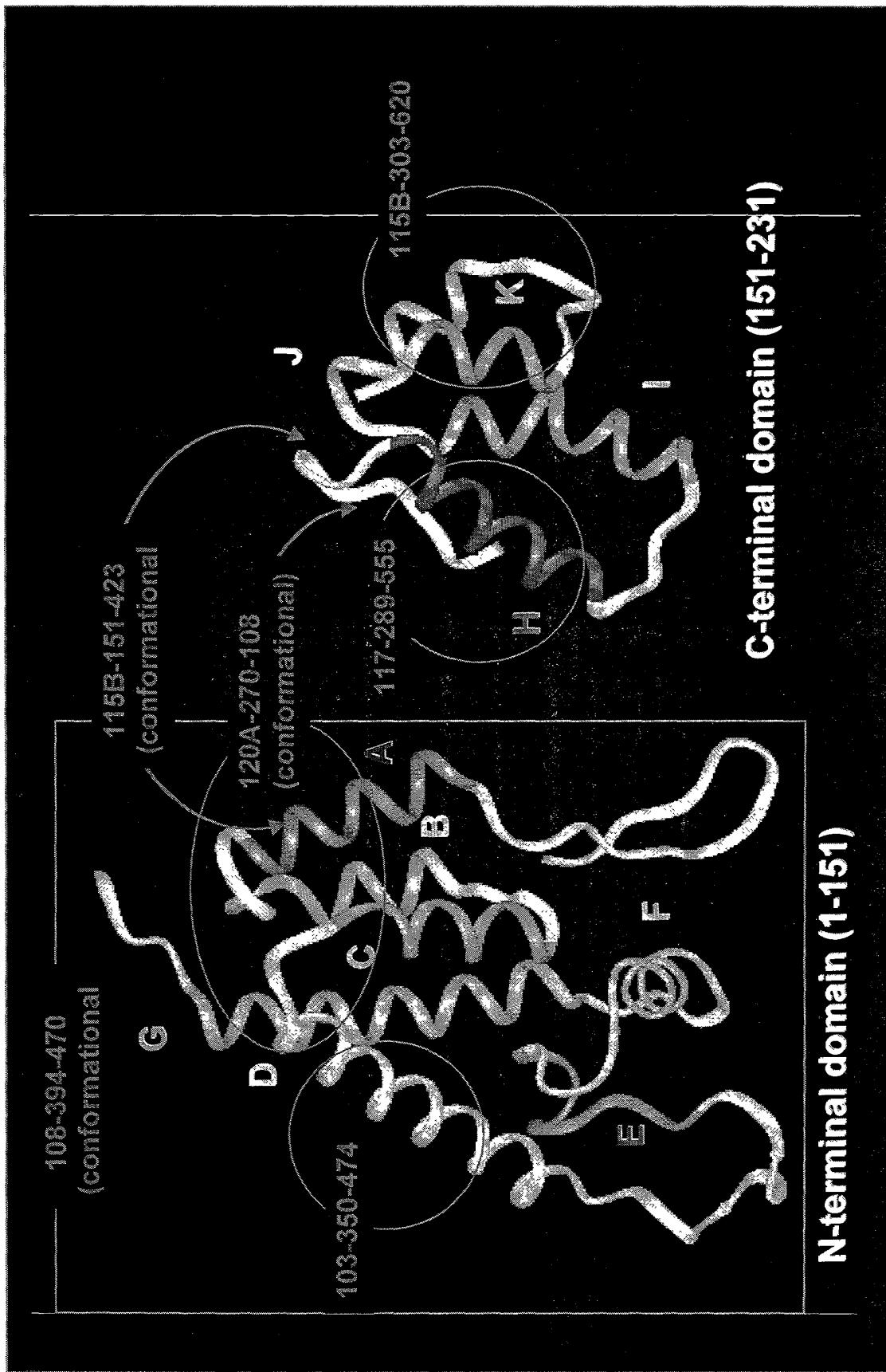


Figure 6.

**HIV-1 p24M detection by 120A-270-108-uParticle and
115B-151-423-ACR on Prism Standalone instrument**

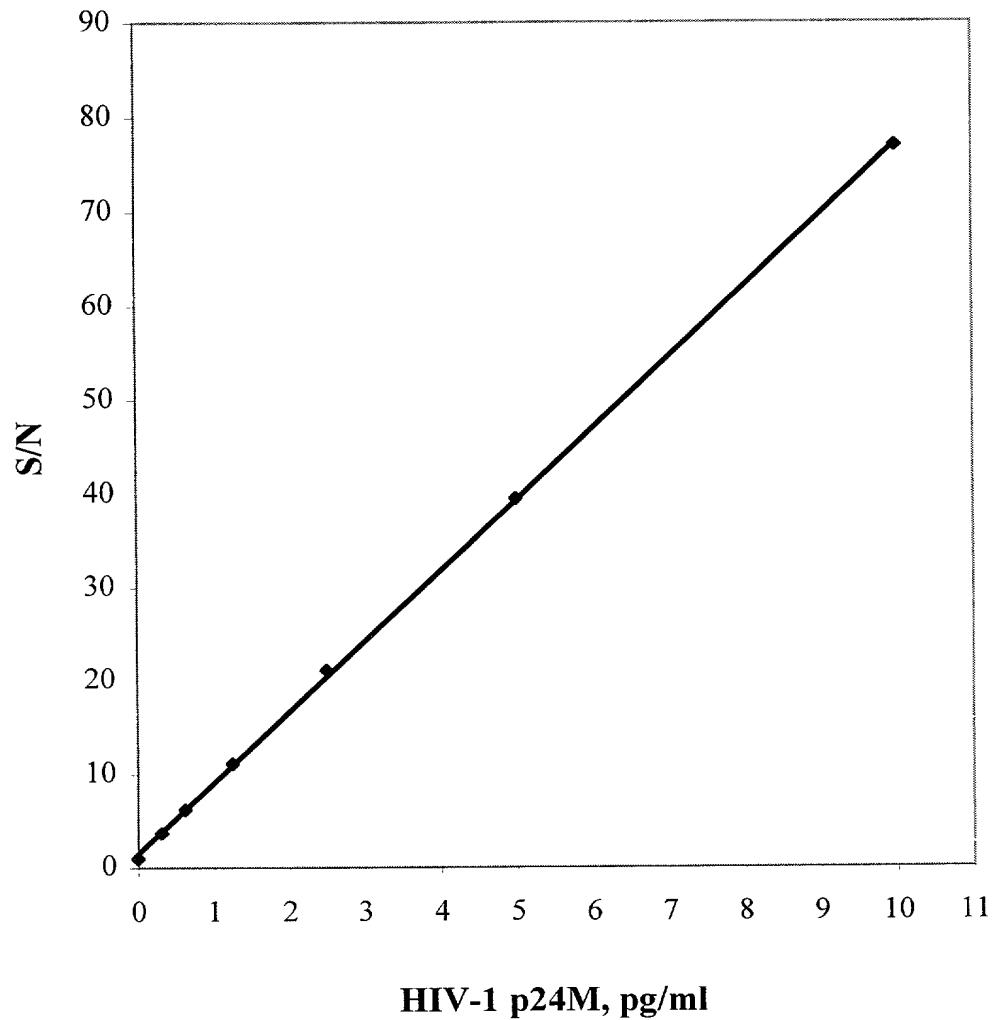


Figure 7.
HIV-1 rp24O detection by 120A-270-108-uParticle and 115B-151-423-ACR on Prism Standalone instrument

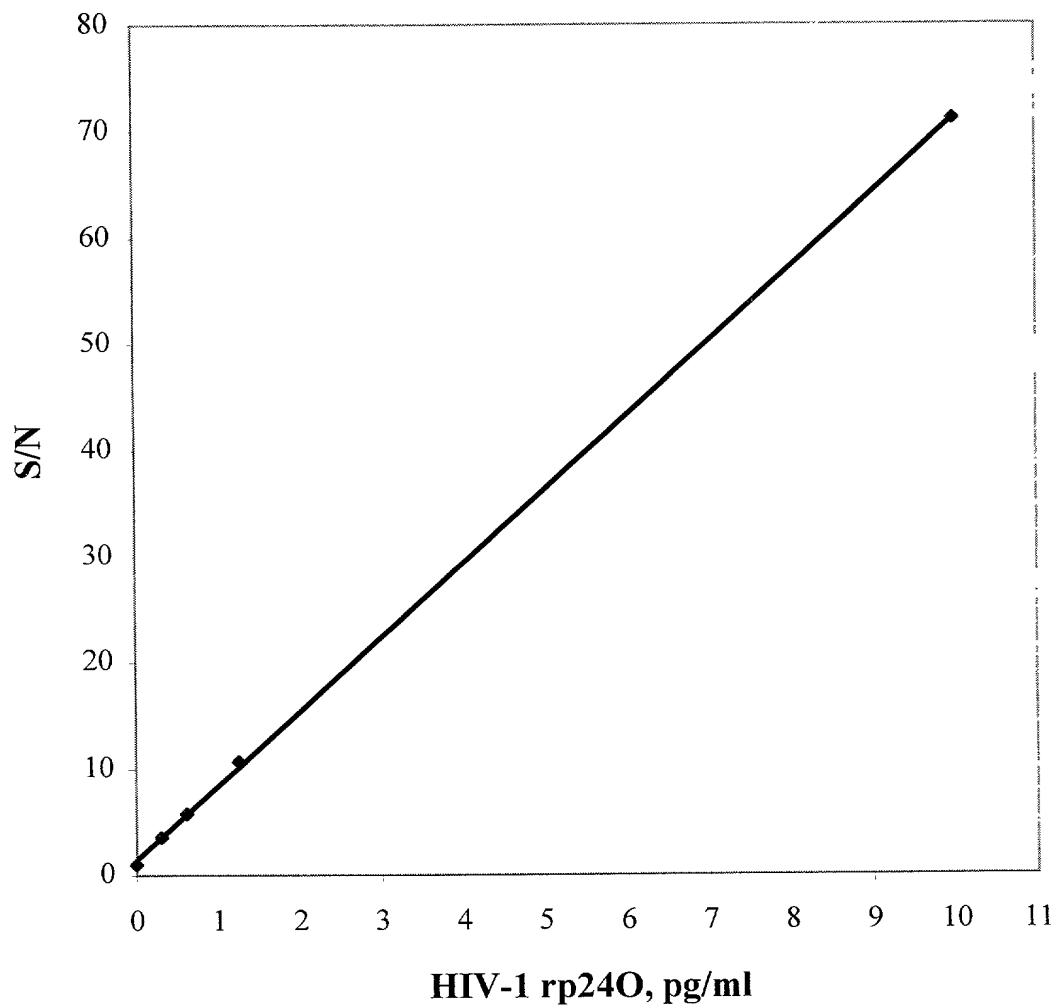


Figure 8.

HIV-2 rp26 detection by 120A-270-108-uParticle and 115B-151-423-ACR on Prism Standalone instrument

